Appl. No. 09/685,196 Amendment dated September 17, 2004 Reply to Office Action of June 18, 2004 please enter Edisk Chang 1/3/2006

IN THE SPECIFICATION:

Please amend the specification as follows.

Please replace the paragraph from page 20, line 32, to page 21, line 4, with the following amended paragraph:

The synchronization coordinator Synchronization coordination 290 takes the synchronization information from the multiple correlation arms and combines and coordinates the data to ensure that the multiple correlation arms work together to ensure quality of service. The synchronization Synchronization coordinator 777 290 sends control signals back to the synchronization processors (refs) 240, 280 and timing controllers (refs) 250, 285 as a means of directing the operation of the various arms.

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IN THE SPECIFICATION:

Please replace the paragraph running from page 1, line 5, to page 2, line 23, of the specification with the following:

The present document contains subject matter related to that disclosed in commonly owned, co-pending application Serial No. 09/209,460 filed December 11, 1998, entitled ULTRA WIDE BANDWIDTH SPREAD-SPECTRUM COMMUNICATIONS SYSTEM (Attorney Docket No. 10188-0001-8); Serial No. 09/633,815 filed August 7, 2000, entitled ELECTRICALLY SMALL PLANAR UWB ANTENNA (Attorney Docket No.10188-0005-8); Application Serial No. 09/563,292 filed May 3, 2000, entitled PLANAR ULTRA WIDE BAND ANTENNA WITH INTEGRATED ELECTRONICS (Attorney Docket No. 10188-0006-8); Application Serial No. 60/207,225 filed May 26, 2000, entitled ULTRAWIDEBAND COMMUNICATION SYSTEM AND METHOD (Attorney Docket No. 192408US8PROV); Application Serial No. XX/XXX,XXX 09/685,198, filed October 10, 2000, entitled ANALOG SIGNAL SEPARATOR FOR UWB VERSUS NARROWBAND SIGNALS (Attorney Docket No. 192504US8); Application Serial No. XX/XXX,XXX 60/238,466, filed October 10, 2000, entitled ULTRA WIDE BANDWIDTH NOISE CANCELLATION MECHANISM AND METHOD (Attorney Docket No.193517US8); Application Serial No. 60/217,099 filed July 10, 2000, entitled MULTIMEDIA WIRELESS PERSONAL AREA NETWORK (WPAN) PHYSICAL LAYER SYSTEM AND METHOD (Attorney Docket No.194308US8PROV); Application Serial No. XX/XXX, 29/685, 203, filed October 10, 2000, entitled SYSTEM AND METHOD FOR BASEBAND REMOVAL OF NARROWBAND INTERFERENCE IN now U.S. Patent 6,8 34,073 ULTRA WIDEBAND SIGNALS (Attorney Docket No.194381US8); Application Serial No. XX/XXX,XXX 09/685,197, filed October 10, 2000, entitled MODE CONTROLLER FOR

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SIGNAL ACQUISITION AND TRACKING IN AN ULTRA WIDEBAND new U.S. Patent 6,965,630 COMMUNICATION SYSTEM (Attorney Docket No. 194588US8); Application Serial No. XX/XXX,XXX 09/684,400, filed October 10, 2000, entitled ULTRA WIDEBAND COMMUNICATION SYSTEM, METHOD, AND DEVICE WITH LOW NOISE PULSE now 4.5. patent 6,735,238 FORMATION (Attorney Docket No. 195268US8); Application Serial No. XX/XXX,XXX 09/685,195, filed October 10, 2000, entitled ULTRA WIDE BANDWIDTH SYSTEM AND 1000 U.S. Patent 6,925,108 METHOD FOR FAST SYNCHRONIZATION (Attorney Docket No. 195269US8); Application Serial No. XX/XXX,XXX 09/684,401, filed October 10, 2000, entitled ULTRA WIDE BANDWIDTH SYSTEM AND METHOD FOR FAST SYNCHRONIZATION USING SUB 21 CW 41.5. PATONT 6, 967, 993 CODE SPINS (Attorney Docket No. 195272US8); Application Serial No. XX/XXX,XXX filed October 10, 2000, entitled ULTRA WIDE BANDWIDTH SYSTEM AND METHOD FOR FAST SYNCHRONIZATION USING MULTIPLE DETECTION ARMS (Attorney Docket No. 195273US8); Application Serial No. XX/XXX,XXX 09/685,199, filed October 10, 2000, entitled A LOW POWER, HIGH RESOLUTION TIMING GENERATOR FOR ULTRA-WIDE now U.S. Patent 6,975,665 BANDWIDTH COMMUNICATION SYSTEMS (Attorney Docket No. 195670US8); Application Serial No. XX/XXX, 23XX 09/685,202, filed October 10, 2000, entitled METHOD AND SYSTEM FOR ENABLING DEVICE FUNCTIONS BASED ON DISTANCE INFORMATION (Attorney Docket No. 195671US8); Application Serial No. XX/XXX,XXX 09/685,201, filed October 10, 2000, entitled CARRIERLESS ULTRA WIDEBAND WIRELESS now 4.5. Patent 6,505.032 SIGNALS FOR CONVEYING APPLICATION DATA (Attorney Docket No. 196108US8) Application Serial No. XX/XXX,XXX 09/685,205, filed October 10, 2000, entitled SYSTEM AND METHOD FOR GENERATING ULTRA WIDEBAND PULSES (Attorney Docket No. 197023US8); Application Serial No. XX/XXX,XXX 09/684,782, filed October 10, 2000,

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entitled ULTRA WIDEBAND COMMUNICATION SYSTEM, METHOD, AND DEVICE

mow U.S. Patent 6,859,576

WITH LOW NOISE RECEPTION (Attorney Docket No.197024US8); and Application Serial

No. XX/XXX,XXX 09/685,200, filed October 10, 2000, entitled LEAKAGE NULLING

RECEIVER CORRELATOR STRUCTURE AND METHOD FOR ULTRA WIDE

now U.S. patent 6,937,646
BANDWIDTH COMMUNICATION SYSTEM (Attorney Docket No. 1541.1001/GMG), the

entire contents of each of which being incorporated herein by reference.

Please replace the paragraph on page 22, lines 10-22, of the specification with the following:

After phase acquisition, the received signal may be tracked as a means of maintaining synchronization as in steps 304 and 308 of Figure 5. This can be done by methods described in, for example, co-pending US patent application entitled "ULTRAWIDE BANDWIDTH

SYSTEM AND METHOD FOR FAST SYNCHRONIZATION," serial number XX/XXX,XXX now 1.5. potent 6, potent 6,

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Please replace the paragraph on page 30, lines 2-9, of the specification with the following:

In step 1520, the phase offset, ϕ , is incremented by z_j from the initial phase offset θ , which may be random, such that $\phi = \theta + z_j$. In step 1530, the correlation estimate for the current phase offset, K, is computed. K is then used to compute the SNR parameter R. This can be done by methods described in, for example, co-pending US patent application entitled "MODE CONTROLLER FOR SIGNAL ACQUISITION AND TRACKING IN AN ULTRA WIDEBAND COMMUNICATIONS SYSTEM," serial number $\frac{1}{2}$ Serial number \frac